

ESPECTROSCOPIA

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Possible new binaries among the Wolf-Rayet stars

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Abstract: Spectra of Wolf-Rayet stars HD 92740 and HD 93131, obtained between May 16 - May 23, 1970, at Cerro Tololo Interamerican Observatory, in Chile, confirm that these stars show the superior members of the Balmer series in absorption. The radial velocities of various emission lines measured indicate variations of the order of 140 km/s for HD 92740 and of the order of 180 km/s for HD 93131. These stars may be binaries with periods of the order of a month.

Peculiar classified Wolf-Rayet stars, HD 90657 and HD 117688

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Abstract: Spectral observations of Wolf-Rayet stars HD 90657 and HD 117688 were made at the Cerro Tololo Interamerican Observatory, in Chile. These stars have been classified by earlier authors as intermediate objects between the two sequences of W-R stars, presenting in their spectra lines of both carbon and nitrogen. However, our observations do not confirm this classification, the observed spectra look like "normal" WN stars. In addition, HD 90657, earlier classified as $WN_4-C + OB$, shows variations of radial velocity of the order of 130 km/s and variations of type V/R in the shape of the emission lines.

Comentarios sobre 272 + 12°1, 292 + 1°1, 328 — 17°1

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Abstract: Comments are made on the following planetaries:

272 + 12°1: the material available permits us to pose some doubts as to the absence of relation between the planetary and the central star.

292 + 1°1: a study of this object, which presents peculiarities in the expansion velocity, will be published elsewhere.

328 — 17°1: this object must be excluded from the lists of planetaries. It has been previously studied as a dwarf galaxy by M. Pastoriza (La Galaxia Peculiar IC 4662, Boletín de la Asoc. Argentina de Astronomía, N° 15, pág. 1).

Observaciones de nebulosas planetarias australes - I

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Abstract: Line identifications and data on line intensities are provided from medium-dispersion plates secured at Bosque Alegre with the nebular spectrograph and Carnegie image tube attached to the 154-cm telescope. The results are to be published elsewhere.